

Enhance Catalogized System Information In The Library, Archives And Documentation Of District South Tapanuli

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Abstract

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Whereas South Tapanuli students used the Willem Iskandar Regional Library as a source of teaching and learning, it was found that not many used the library. Whereas Padangsidempuan students in visiting or borrowing books to the Willem Iskandar Regional Library, the researchers saw from the list of borrowed books, sometimes only 6 people borrow books a week and sometimes they don't exist at all, sometimes even in doing homework (PR) students are more often choose to use the Internet, because they think it is easier and faster. This shows that the low interest of MAN 1 Padangsidempuan students in using the library as a source of learning. It should be learned not only in the study room, but it is very important to develop knowledge by reading a lot of books in the library. And the inhibiting factors for student interest are low student interest in reading, the location of the library is too far from the classroom, facilities in the library very limited, library collection that uses a lot of old books..

Keywords: E-Library, Padang Sidempuan, New Method

1. INTRODUCTION

Computers can function as data processing, processing data in the form of worksheets and organizing large amounts of data. With the presence of this computer technology will certainly be able to help and facilitate human work. However, sometimes the use of this technology by a company or an organization has not been maximally used, including the processing of cataloging data at the South Tapanuli Regency Library, Archives and Documentation. In this case, the author can describe that the data processing that has been applied so far is still done manually by filling out and using blank catalogs for each book. This will result in the occurrence of several errors including errors in recording book catalogs, compilation of book catalogs that are not sequential and so on. These errors will certainly be able to hinder the preparation of periodic reports required by the leadership.

Besides, errors in calculating book catalogs often occur, this is due to the absence of a data processing system that can provide information quickly, accurately and on time. To overcome these problems, a programmatic and structured book catalog data processing process is needed using a computer, in order to provide correct information in accordance with actual reality.

From the explanation that has been described above, it is illustrated that an interesting problem to be discussed and solved by the author, namely the processing of book cataloging data which has been done manually.



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2. LITERATURE REVIEW

2.1. A Brief History of the South Tapanuli Regency Library, Archives and Documentation

After the era of regional autonomy took effect in South Tapanuli Regency, the public library in this area was disbanded due to a regional regulation regarding the dissolution of this institution. In 2000 the assets of the regional library unit were placed at the Infokom office of South Tapanuli Regency. After that in 2001, the activities of the public library were transferred to the Public Relations Section of the Infokom Office of South Tapanuli Regency.

Then in 2007 public library activities functioned in the Library and Public Communication Section at the Infokom Office of South Tapanuli Regency. Finally, in December 2010 the South Tapanuli Regency Library, Archives and Documentation Office was officially established in accordance with Regional Regulation (Perda) No. 14 of 2010. The regulation came into effect since it was promulgated in the South Tapanuli region on 12 January 2011. Since then the Office of the Library, Archives and South Tapanuli Documentation making policies and carrying out activities in the form of coaching, development, services and other things related to the library.

2.2. Aids in Information System Design

System design is very necessary in processing data and information, because without it being designed in advance, the data processed for information will not be perfect. In designing this system, many tools are used to facilitate a job, including:

According to Riswanto (2007), Context Diagram is an initial description of a system. Context Diagrams are very useful to find out the problems that exist in a company. From here it can be seen whether the information system is still suitable for use or not, and is still manual or computerized. If the information system is not suitable for use, it is necessary to make changes in data processing so as to produce a fast and accurate information system in order to produce a better decision.

2.3. Microsoft Visual Basic 6.0 Programming Overview

Microsoft Visual Basic 6.0 is taken from the BASIC (Beginner's All-Purpose Symbolic Instruction Code) language created by John G. Kenneney (1960). Microsoft Visual Basic 6.0 is a program that is used to create Windows applications based on graphics or Graphical User Interface (GUI).

Microsoft Visual Basic 6.0 was first introduced in 1991, which is a Basic program that runs with an operating system based on the Disk Operating System (DOS) and Windows. Then it was developed continuously until now it has reached Microsoft Visual Basic 6.0 Network (VBNet) which was released in 2002.

Integration Development Environment (IDE) is a field where design or design to produce application programs. The display of the Microsoft Visual Basic 6.0 IDE is shown in Figure 2, this screen is the Microsoft Visual Basic 6.0 application development environment which will later be used to create application programs.

3. METHOD

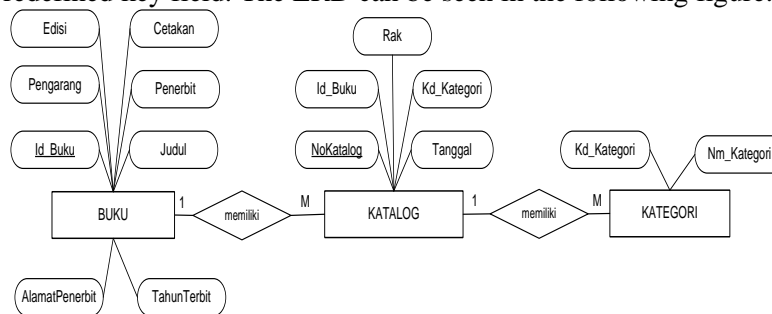
System analysis is an activity to describe a complete system that is being implemented into several elements that can be researched or analyzed in order to identify or even evaluate the problems that exist in the system and plan the needs for system improvement.



Based on the analysis that the author has done, it can be described the procedures that have been applied to the cataloging information system in the Library, Archives and Documentation of South Tapanuli Regency. The current flow of the cataloging information system at the Library, Archives and Documentation of South Tapanuli Regency is:

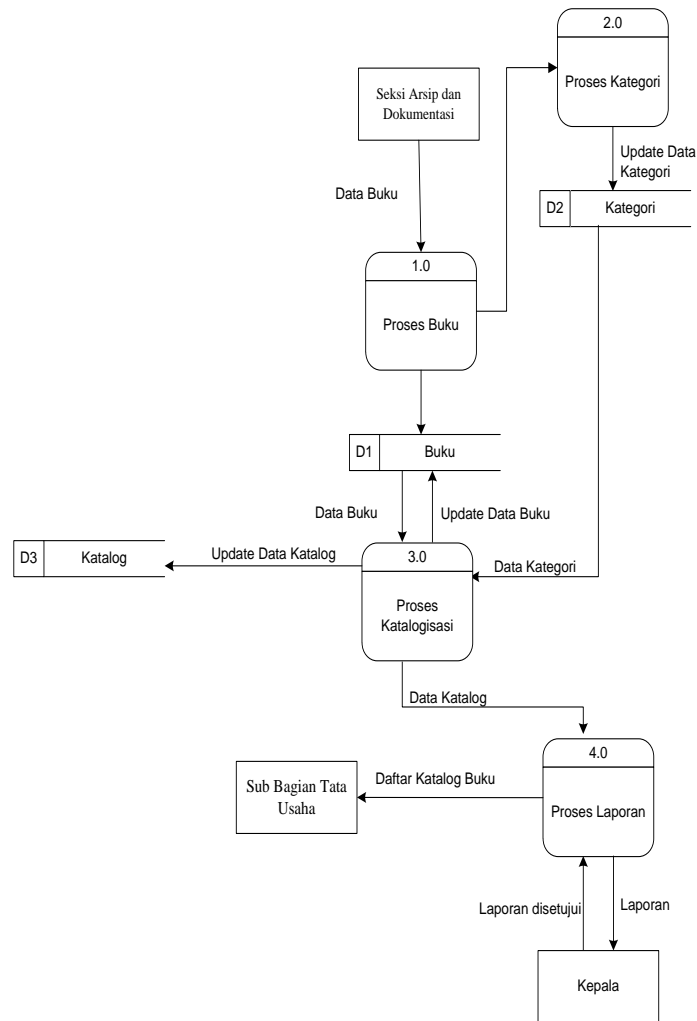
1. Every time a book enters the library, it will be cataloged by the staff in charge of the system, meaning that the book is registered or registered as a new book at the South Tapanuli Regency Library, Archives and Documentation.
2. After being cataloged, the book is placed in a cupboard or bookshelf so that it can be read, or borrowed by visitors.

The development of a file or table in the form of an Entity Relationship Diagram (ERD) aims to explain the relationship of several files in the program. Each of these files has several fields. The field is associated with a predefined key field. The ERD can be seen in the following figure:



Picture 1. Entity Relational Diagram (ERD)

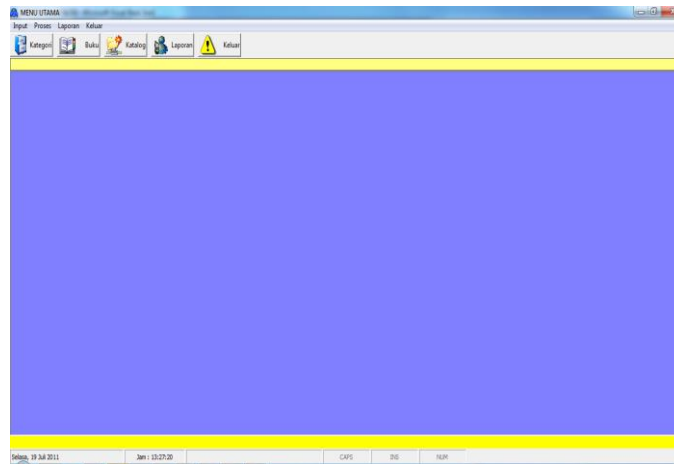
Design Data flow diagram is a design that describes the mechanism of the system in particular and is associated with a file or table designed to produce information. The design of this data flow diagram can be seen in the image below:



Pictures 2. Data Flow Diagram

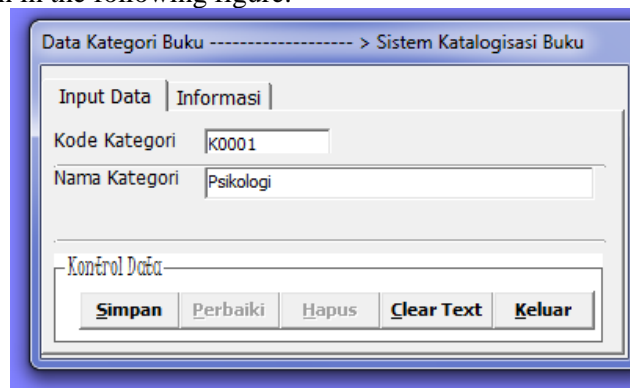
4. Analyze and Result.

The display of the results of the program on the main menu can be seen in Figure 3 below:



Pictures 3. Main Menu Display

In this file sub menu, there are two sub menus, namely category data and book data. The display of the two input data can be seen in the following figure.



Pictures 4. Book Category Input View

5. Conclusion.

Based on the analysis and discussion that the author did in the previous chapters, it can be concluded that:

1. Based on the analysis of the current system, we can improve the workability of the system that has been implemented so far by optimizing the use of computer media so that it can minimize the level of errors made by humans.
2. With the proposed system, it can facilitate the processing of cataloging data in the Library, Archives and Documentation of South Tapanuli Regency so that no more errors occur.
3. With the proposed system the use of time is more efficient and effective in processing cataloging data at the Library, Archives and Documentation of South Tapanuli Regency.

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